

Technical Data Sheet

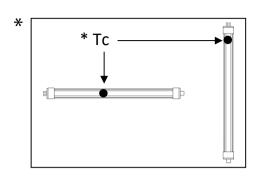
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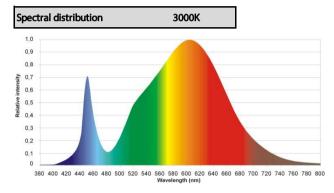
Aura UltiLED Long Life

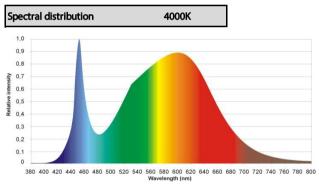
			Aura UltiLED Long L							g Life				
		Nominal wattage (W)	8			17			23					
		Nominal length (mm)	549			1149			1449					
		Diameter (mm)	16			16			16					
		Weight (g)	120			250			315					
		Colour Rendering Index CRI	≥80			≥80			≥80					
SDCM			3			3			3					
Light Colour			830	840			830	840		830	840			
		Correlated Colour Temperature CCT	3000	4000			3000	4000		3000	_			
N	omi	nal and rated flux ¹⁾ @ 25 °C (lm) (+/- 8% tolerance)	1040	1100			2080	2220		2800	3000			
		Lamp efficacy ¹⁾ @ 25 °C (lm/W)	130	138			122	131		122	130			
		Energy Class	E	E			E	E		E	E			
		kW/1000 hrs	8,8	8,8			18,7	18,7		25,3	25,3			
		Rated Wattage (W)		8			10,7	17			23			
		Power Factor (Pf)	>0,9 (in combination with approved driver)											
ata	Ħ	Operating Voltage (V)	24 (23,	2-26,4)		24 (23,2-26,4)			33 (31,9-36,3)					
Electrical Data	Input	Operating Current (mA)	350 (500 max)			700 (1050 max)			700 (1050 max)					
ectr														
Ш	Output													
	ō													
		Nominal lifetime		58 000										
		Rated lifetime	58 000											
L	_	LLMF - Lamp Lumen Maintenance												
-	3 8	Factor end of nominal life	80%											
10 10 10 10 10 10 10 10 10 10 10 10 10 1		LSF - Lamp Survival Factor end of		50.70										
_		nominal life Installation environment		90% Indoor and outdoor										
		Ingress Protection	IP65											
		Warm-up time to 60% light output	Instant full light											
		Starting time	0,5 seconds (max) will depend on driver used											
		Max Tc *	+75 ℃											
		Ambient temperature (Ta) Nominal beam angle	-30 °C - +50 °C											
		Rated beam angle	120° 120°											
		Suitable for accent lighting												
				No 1 500 000 (min)										
		Dimmable		Yes (depends on driver used)										
		Cap		G5										
		Tube and cap material Glass and PC Mercury Content							-					
		wercury content		0										
		Notice When replacing flourescent lighting, light distribution determined by the design of the									fficiency	will be		
		determined by the design of the installation												

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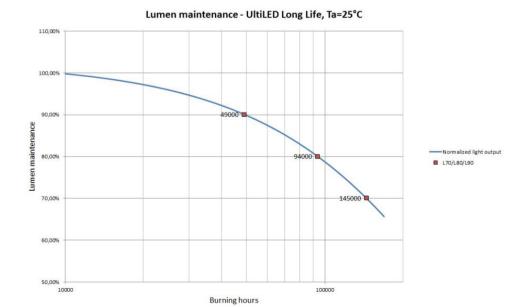








Calculated LED Lifetime h (TM-21)	L70	L80	L90
	145 000	94 000	49 000



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Installation guide – UltiLED

This guide explains the steps necessary to install UltiLED inside a luminaire and ensure optimal performance. The guide is only for reference and is intended for qualified electricians or lighting technicians.

Installation 6 steps:

- 1) Make sure that the right type of driver is within the luminaire. (A SELV driver is recommended. Should a non-SELV driver be used that still meets the requirements of the tube, power to the luminaire should be disconnected prior to installing or changing the UltiLED tube if the UoutMax (no load voltage) is equal to or greater than 400V.)
 - a) 8W tube needs 350mA and 24VDC
 - b) 17W tube needs 700mA and 24VDC
 - c) 23W tube needs 700mA and 33VDC
- 2) Unpack the UltiLED tube.
- a) Carefully examine the product
- b) Do not use the product if it's damaged
- 3) Make sure that the active side (metal pin side) is connected to the active side within the luminaire.

 See picture below.

a)The UltiLED tube is not bipolar so the LED+ and LED- side must coincide with diagram below

UltiLED is not a retrofit LED lamp for T8 or T5 replacement application. An external LED driver complying for European safety & performance norms should be used. All light fitting manufacturers should conform to the international standards IEC 60598-luminaires

LED +

L LED

N Driver

Circuit diagram

LED
UltiLED
UItiLED

- 4) Make sure that the UltiLED is turned into the luminaire so that the light output is directed the desired way.
- 5) Reconnect power to the luminaire and turn it on.

Additional information

- because of external power supply, tubes can only be used in therefore suitable luminaires.
- installation instructions and warnings are provided with the products
- to avoid dangerous situation for end user, the tube is double/re-inforced insulated from live parts.
- LED tube is recommended to be used with certified SELV LED driver

Limitation of use

Due to dimension of the and cap, the LED tubes can only be used with lampholders which are provided with rotor in the middle.